3 20 DEC 2004

### **PATENT COOPERATION TREATY**

10/518561

### **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 29 MAR 2004

			•		אבטיט ,	Z 9 MAR ZUUT		
Applicant's or agent's file reference J3699(C)/rkk FOR FURTHER			FOR FURTHER A	CTION See	WIPO	on of Transfinited of Interna camination Report (Form I	ational PCT/IPEA/416)	
International application No. PCT/EP 03/06211			International filing date (day/month/year) 12.06.2003		r)	Priority date (day/month/year) 21.06.2002		
nternation A61K7/0		nt Classification (IPC) or t	oth national classification	and IPC		<u></u>		
pplicant JNILEV	ER PL	.C et al						
. This	s intern hority a	national preliminary exa and is transmitted to the	mination report has be applicant according to	en prepared b Article 36.	y this Inte	mational Preliminary E	xamining	
. This	is REPORT consists of a total of 5 sheets, including this cover sheet.							
	peen	amended and are the	nied by ANNEXES, i.e. basis for this report and n 607 of the Administra	t <i>i</i> or sheets coi	ntaining r	on, claims and/or drawi ectifications made befo he PCT).	ngs which have re this Authority	
The	se ann	exes consist of a total of	of sheets.			EPO - DG	1	
			·			0 4, 06, 2004	•	
. This	report	rt contains indications relating to the following items:				(104)		
11		Basis of the opinion Priority				•		
111		•			<b>.</b>			
IV	_	Non-establishment of opinion with regard to novelty, inventive Lack of unity of Invention				no industriai applicabili	ty	
٧	×	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI	-	Certain documents cite						
VII		Certain defects in the international application						
VIII		Certain observations of	n the international appl	ication				
ate of Sub	mission	of the demand		Date of comp	etion of thi	s report		
19.11.2003				26.03,2004				
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European Patent Office D-80298 Munich				Werner, S				
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06211

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•	Bas	sis of the report		`						
	With regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):									
	Des	scription, Pages								
	1-3	6	as originally filed							
Claims, Numbers										
	1-18	-	as originally filed							
2. With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.										
These elements were available or furnished to this Authority in the following language: , which is:										
		the language of a tra	unslation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publ	ication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.	inslation furnished for the purposes of international preliminary examination (under 3).							
With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:										
		contained in the inte	mational application in written form.							
		filed together with th	e international application in computer readable form.							
		furnished subsequer	ntly to this Authority in written form.							
		furnished subsequer	ntly to this Authority in computer readable form.							
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disc in the international application as filed has been furnished.										
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.	3						
١.	The	amendments have r	esulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.		This report has been been considered to	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).	*)						
		(Any replacement si report.)	heet containing such amendments must be referred to under item 1 and annexed to th	is						
•	Add	ditional observations.	if necessary:							

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06211

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N)

Yes: Claims

1-18

No: Claims

Inventive step (IS)

Yes: Claims

1-18

No: Claims

Industrial applicability (IA)

es: Claims

1-18

No: Claims

2. Citations and explanations

see separate sheet

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#### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1:

WO-A-0219976

D2:

WO-A-9925312

- 2. This international application presently claims
- a hair conditioning composition
  - kept at pH 8 or less, comprising
    - 0.01-10 wt.% of a cationic surfactant
  - В 0.01-10 wt.% of a C8-C22 alcohol
  - C 0.001-5 wt.% of a hydrophobically modified clay and
  - water, wherein
  - the weight ratio A:B is from 1:1 to 1:10 (claim 1),
- a method comprising the application of a respective composition to hair (claim 14) and
- the use of hydrophobically modified clay for imparting conditioning benefits to hair (claim 15).
- 3.1 Document D1, which is considered to represent the most relevant state of the art, discloses in example 8 (compare examples 7 and 9) a rinse-off hair conditioning composition, kept at pH 3-7, comprising (A) 0.64 wt.% of ditallow dimethyl ammonium chloride, (B) 2 wt.% of a mixture of cetyl and stearyl alcohol and (D) water, from which the subject-matter of claim 1 differs in that different particles (C) are used.
- 3.2 Although D1 lists clays as appropriate particles to be included in hair conditioning

compositions (D1: page 7, line 10), the hair conditioning benefit of the particular particles used in the present application cannot be inferred from the prior art.

- 3.3 Document D2 is concerned with suspensions containing polysaccarides. It is there suggested to include hair conditioning agents in the compositions provided (page 9, lines 14-23) and example 5 discloses a rinse-off hair conditioning composition comprising components A-D: (A) 3 wt.% of the cationic surfactant stearalkonium chloride, (B) 2 wt.% of cetyl alcohol, (C) 0.034 wt.% of the hydrophobically modified clay quaternium-18 bentonite (Tixogel® MP 100; 3.4 parts of 100 parts from example 3 contributing to example 5 by 1 wt.%) and (D) water. But, since the weight ratio of A:B does not meet the specifications set in claim 1, the subject- matter of claim 1 is novel over the disclosure of D2.
- 3.4 From the disclosure of the prior art, no incentive can be inferred to restrict the weight ratio of cationic surfactant to fatty alcohol in rinse-off hair conditioning compositions. Nevertheless, it is stated in the application, that at least two effects are associated with this parameter (page 21, lines 13-16): eye irritancy and squeaky sensations. Therefore, the objective technical problem has been, how to reduce eye irritancy and how to avoid making the hair feeling squeaky. The solution proposed in present claim 1, the restriction of said weight ratio, is considered to imply an inventive step.
- 3.5 The subject-matter of claim 1 is therefore novel and does involve an inventive step (Article 33(2)(3) PCT).
- Consequently, since the method of claim 14 comprises the application of a composition according to claim 1, the subject-matter of claim 14 is considered to be novel and to involve an inventive step (Article 33(2)(3) PCT).
- The use of claim 15 is neither known nor suggested from the prior art.
   The subject-matter of Claim 15 is therefore considered to be novel and to involve an inventive step (Article 33(2)(3) PCT).